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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/473,740	12/28/1999	HONGJIANG SONG	INTL-0327-US	1399
75	90 11/20/2002			
09/473,740 12/28/1999		EXAMINER		
		VO, DON NGUYEN		
HOUSTON, TX	× 77024		ART UNIT PAP	PAPER NUMBER
	2631		·	
			DATE MAILED: 11/20/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

			HC		
		Application No.	Applicant(s)		
Office Action Summary		09/473,740	SONG, HONGJIANG		
		Examiner	Art Unit		
		DON N VO	2631		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address		
A SH THE I - Exter after - If the - If NC - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) divil apply and will expire SIX (6) MONTHS fro acuse the application to become ABANDON	nimely filed ays will be considered timely. In the mailing date of this communication. IED (35 U.S.C. § 133).		
1)⊠	Responsive to communication(s) filed on <u>03 S</u>	September 2002 .			
2a) <u></u> □	This action is FINAL . 2b)⊠ Thi	is action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
·	Claim(s) <u>1-20</u> is/are pending in the application				
	4a) Of the above claim(s) is/are withdraw				
	Claim(s) is/are allowed.	WITHOUT CONSIGNATION.			
	Claim(s) <u>1-20</u> is/are rejected.				
· _	Claim(s) is/are objected to.				
· · · · · · · · · · · · · · · · · · ·	Claim(s) are subject to restriction and/or	r election requirement			
	on Papers	Globion requirement.			
9)[The specification is objected to by the Examiner	1.			
10)	The drawing(s) filed on is/are: a)☐ accep	oted or b) objected to by the Ex	aminer.		
	Applicant may not request that any objection to the	•			
11) 🔲 -	The proposed drawing correction filed on	is: a) approved b) disapp	roved by the Examiner.		
If approved, corrected drawings are required in reply to this Office action.					
12) 🔲 -	The oath or declaration is objected to by the Exa	aminer.			
Priority u	ınder 35 U.S.C. §§ 119 and 120				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)[☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority documents	s have been received.			
	2. Certified copies of the priority documents	s have been received in Applica	tion No		
* S	3. Copies of the certified copies of the prior application from the International Bursee the attached detailed Office action for a list of the control of the certified copies of the prior applications.	eau (PCT Rule 17.2(a)).	_		
	cknowledgment is made of a claim for domestic				
) ☐ The translation of the foreign language pro	· · · · · · · · · · · · · · · · · · ·			
	Acknowledgment is made of a claim for domestic				
Attachmen	t(s)				
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)		

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

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DETAILED ACTION

Acknowledgment

1. This Office Action is responsive to the Amendment filed on 9/3/02.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-8 and 15-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art (fig. 1) of instant application in view of Kline et al (5,068,880; newly cited art).

As shown in figure 1, the admitted prior art teaches a repeater circuit comprising a data recovery circuit (16) and synchronization detection circuit (18). See also page 1, line 1 to page 2, line 10 of the instant application. The admitted prior art fails to teach detecting whether some of the bits indicate a synchronization field during the buffering the bits. However, Kline teaches, as shown in figures 3 and 4A and abstract, detecting whether some of the incoming bits indicate a synchronization field during the buffering the incoming bits in order to achieve high speed of transferring data. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the repeater circuit of the admitted prior art by employing the teaching of

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Kline et al so that to improve the delay time of repeating the data since both buffering bits and detecting synchronization field are performed concurrently.

4. Claims 9-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art (fig. 1) of instant application in view of Kline et al (5,068,880; newly cited art) as applied to claims 1-8 and 15-20 above, and further in view of Banker et al (5,497,187; art of record), Andersson et al (5,671,249; art of record) or Julyan (5,790,610; art of record).

Both the admitted prior art and kline et al teach all subject matter claimed except for using the output of the data recovery circuit to apply to the transmitter to form an outgoing data. However, Banker (fig. 4C), Andersson (figs. 3 and 4) or Julyan (figs. 1, 2 and 7) teaches using the output of the data recovery circuit to apply to the transmitter to form an outgoing data. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the repeater of the admitted prior art by employing the teachings of Banker, Andersson or Julyan so that the delay for processing the signal received from the receiving end to the transmitting end of the repeater can be reduced.

Response to Arguments

5. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. References Annamalai (5,063,575) and Ibenthal (5,493,589) are cited because they are pertinent to system having data buffering and sync detection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DON N VO whose telephone number is (703) 305-4885. The examiner can normally be reached on 8:30AM-5:00PM, Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CHI PHAM can be reached on (703) 305-4378. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3800.

DON N VO Primary Examiner

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November 15, 2002